

1 **CLAIMS**

2 What is claimed is:

3 1. A spinal fusion device for adjusting the space between
4 vertebrae comprising an upper section having a top surface and
5 depending sidewalls, said sidewalls terminating in a first
6 inclined plane, a lower section having a bottom surface and
7 upstanding sidewalls, said upstanding sidewalls terminating in
8 a second inclined plane, said first inclined plane and said
9 second inclined plane being complementary to each other in
10 movable contact and a distractor located between said
11 upstanding sidewalls, said distractor having adjustment means
12 for moving said upper section relative to said lower section
13 thereby increasing the distance between said top surface and
14 said bottom surface.

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16 2. A spinal fusion device for placement in the disk space
17 between adjacent vertebrae comprising a hollow body having an
18 upper section with a top surface for contacting one vertebra
19 and a lower section with a bottom surface for contacting the
20 adjacent vertebra, sidewalls depending from said top surface
21 terminating in an inclined plane, upstanding sidewalls
22 projecting from said bottom surface terminating in an inclined
23 plane, said depending sidewalls and said upstanding sidewalls
24 in sliding contact with each other along said inclined plane

1 whereby the distance between said bottom surface and said top
2 surface is adjustable by moving said upper section relative to
3 said lower section.

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5 3. A spinal fusion device of claim 2 comprising an end
6 wall depending from said top surface, said end wall including
7 a means for moving said upper section relative to said lower
8 section, a distractor adapted to be inserted in said hollow
9 body and contact said upstanding sidewalls, a link connected to
10 said distractor for connecting said means and said distractor
11 to adjust said distance.

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13 4. A spinal fusion device of claim 2 comprising said
14 upstanding walls having a thickness, a portion of said
15 upstanding walls having a lesser thickness, a flange connected
16 to said top surface, said flange adapted to contact said
17 portion of said upstanding walls having a lesser thickness and
18 provide alignment of said upper section and said lower section.

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20 5. A spinal fusion device of claim 2 comprising a
21 distractor adapted for insertion in said hollow body, said
22 distractor having an end plate, said end plate of a size to
23 contact said upstanding sidewalls, said end plate including a
24 bore.

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2 6. A spinal fusion device of claim 5 comprising a body
3 connected to said end plate by rails, said body having a bore
4 for alignment with said end plate bore.

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6 7. A spinal fusion device of claim 6 comprising an end
7 wall depending from said top surface, said end wall including
8 a means for moving said upper section relative to said lower
9 section.

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11 8. A spinal fusion device of claim 7 comprising a link
12 extending through said end plate bore and said body bore and
13 connected to said means for moving said upper section relative
14 to said lower section, said link adapted to reduce the distance
15 between said end plate and said end wall.

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17 9. A spinal fusion device of claim 2 comprising a series
18 of lands and grooves on said top surface for increasing
19 purchase of said device.

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21 10. A spinal fusion device of claim 2 comprising a series
22 of lands and grooves on said bottom surface for increasing
23 purchase of said device.

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1 11. A spinal fusion device of claim 2 comprising a series
2 of lands and grooves on said top surface and a series of lands
3 and grooves on said bottom surface for increasing purchase of
4 said device.
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